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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,222	03/02/2004	Yuji Nakagawa	108075-00124	9846
4372	7590 06/10/2004		EXAMINER	
	OX KINTNER PLOTK	PHAM, LY D		
1050 CONNECTICUT AVENUE, N.W. SUITE 400 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			2818	
			DATE MAILED: 06/10/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summers	10/790,222	NAKAGAWA, YUJI
Office Action Summary	Examiner	Art Unit
	Ly D Pham	2818
The MAILING DATE of this communication app Period for Reply	p ars on the cover sheet t	vith the correspond nce address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of th will apply and will expire SIX (6) MC e, cause the application to become	irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
 1) ⊠ Responsive to communication(s) filed on <u>02 №</u> 2a) ☐ This action is FINAL. 2b) ⊠ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under № 	s action is non-final. Ince except for formal ma	•
Disposition of Claims		
4) ⊠ Claim(s) <u>9-13</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) <u>10</u> is/are allowed. 6) ⊠ Claim(s) <u>9 and 11-13</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 02 March 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	a)⊠ accepted or b)□ o drawing(s) be held in abeyation is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ⊠ Acknowledgment is made of a claim for foreign a) ⊠ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority document 2. ⊠ Certified copies of the priority document 3. □ Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in prity documents have bee nu (PCT Rule 17.2(a)).	Application No. <u>09/994,611</u> . n received in this National Stage
Attachment(s)	∧ □	Cumman (DTO 442)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>0304</u>. 	Paper No.	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152) see Continuation Sheet.

Continuation of Attachment(s) 6). Other: Statement of Reason for Allowance.

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DETAILED ACTION

1. Applicant's Pre-Amendment filed March 02, 2004 has been entered. Claims 1 – 8 have been canceled. Claims 9 – 13 are presented for the examination.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 claims a method for conducting a multiple word line selection test on a semiconductor memory device. The method comprises a first step of inactivating multiple word lines in the first memory cell block ..., and a second step for inactivating multiple word lines in the second memory cell block

It is considered unclear for one skilled in the art to recognize how the steps of inactivating the multiple word lines ... correlate to conducting the multiple word lines selection test since "inactivating" basically means doing nothing to the word lines. Hence, the claimed steps show no contribution/relationship, which make sense, to the method for conducting the word line selection test.

Clarification is required to overcome this type of rejection.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 11 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Applicant's admitted prior art.

Regarding claim 11, AAPA discloses a semiconductor memory device comprising: a plurality of memory cell blocks (fig. 1, blocks BL0-3), wherein each memory cell blocks includes a plurality of memory cells and a plurality of word lines connected to the

memory cells (fig. 2);

a plurality of sense amp groups ... (fig. 1, sense amp groups 1's);

a plurality of block control circuit ... (fig. 1, block control circuits 4's);

a plurality of sense amp drive circuits ... (fig. 1, sense amp drive circuits 3's), each of the sense amp drive circuits include a latch circuit (fig. 3, 12a/12b).

Regarding **claim 12**, AAPA also discloses the device according to claim 11, further comprising: a timing signal generation circuit (specification page 3, lines 21 – 22) ...; wherein the latch circuit receives the sense amp set timing signal and the sense amp reset timing signal (specification page 3, line 16 – page 3, line 28).

Regarding claim 13, AAPA further discloses the device according to claim 11, wherein the block control circuit includes a word line reset signal generation circuit for generating a word line reset signal that stops selecting the plurality of word lines (specification page 3, lines 14 –

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25), wherein the latch circuit receives the word lines reset signal including block information

(specification page 5, line 28 – page 6, line 28).

Allowable Subject Matter

6. Claim 10 is allowed.

7. The following is an examiner's statement of reasons for allowance:

The prior arts teach a method for conducting a multiple word line selection test on a semiconductor memory device provided with a plurality of memory cell blocks, which include a first memory cell block and a second memory cell block, each of the memory cell blocks having a plurality of memory cells and a plurality of word lines connected to the memory cells, and a plurality of sense amp groups connected to the first and second memory cell blocks, each of the sense amp groups amplifying cell information read from the plurality of memory cells of an

a first step for activating one or the plurality of word lines ...;

associated one of the memory cell blocks, the method comprising:

a second step for activating word liens other than the one that as been activated in the first memory cell block;

a third step for activating one of the plurality of word lines in the second memory cell block ...;

a fourth step for activating word lines other than the one that ash been activated in the second memory cell block.

However, the prior arts did not further disclose:

a fifth step for inactivating multiple word lines in the second memory block and the sense

amp group associated with the second memory block and the sense amp groups ...; and

a sixth step for inactivating multiple word lines in the second memory block and the

sense amp groups ...,

wherein the third and fourth steps are performed while the first and second steps are

continuously performed or the second and fourth steps are performed while the first and third

steps are continuously performed.

8. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

10. When responding to the office action, Applicant(s) are advised to provide the examiner

with the page and line numbers in the application and/or references cited to assist the examiner to

locate the appropriate paragraphs.

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A shortened statutory period for response to this action is set to expire 3 (three) months 11. and 0 (zero) day from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see MPEP 710.02(b)).

Any inquiry concerning this communication on earlier communications from the 12. examiner should be directed to Ly Pham, whose telephone number is 571-272-1793. The examiner can normally be reached on Monday - Friday from 8:30am to 5:00pm, alternate Friday off. The examiner's supervisor, David Nelms, can be reached at 571-272-1787. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Ly Pham

June 7, 2004

Supervisory Patent Examiner Technology Center 2800